



No. 20 Tee



No. 10 Elbow

Certifications/Listings



When supplied as “hot dip galvanized” the following fittings are UL Classified in accordance with ANSI/NSF 61 and for use on cold +86°F/+30°C potable water service and ANSI/NSF 372: No. 10 90° Elbow, No. 11 45° Elbow, No. 12 22 1/2° Elbow, No. 13 11 1/4° Elbow, No. 100 90° Long Radius Elbow, No. 110 45° Long Radius Elbow, No. 20 Tee, No. 25 Tee with Grooved Branch, No. 30 45° Lateral, No. 60 Cap, No. 50 Concentric Reducers, No. 51 Eccentric Reducers.

Note: The following Victaulic fittings are VdS approved: No.10 90° Elbow, No.11 45° Elbow, No.20 Tee and No.60 Cap.

Note: The following Victaulic fittings are LPCB approved: No.10 90° Elbow, No.11 45° Elbow, No.12 22 1/2° Elbow, No.13 11 1/4° Elbow, No.30 45° Lateral, No.30-R Reducing Lateral, No.100 Long Radius Elbow, No.110 Long Radius Elbow, No.20 Tee, No.35 Cross, No.60 Cap, No.25 Reducing Tee, No.33 True Wye, No.50 Concentric Reducer, No.51 Eccentric Reducer and No.29M Tee with Threaded Branch.

Product Description

- Wide range of fittings from ¾ – 60”/20 – 1500 mm
- Fittings conform to the pressure ratings of the Style 77 coupling
- Fittings are provided with grooved or shouldered ends.

Note: These fittings are not intended for use with Victaulic plain end couplings.

- Fittings are intended for use in grooved piping systems only

Note: When connecting wafer or lug type butterfly valves directly to Victaulic fittings using Style 741 or 743 flange adapters, be sure to check disc clearance dimensions with I.D. dimension of fitting.

Job/Owner

System No.	
Location	

Contractor

Submitted By	
Date	

Engineer

Spec Section	
Paragraph	
Approved	
Date	

Material Specifications

Fitting: (specify choice)

Standard: Ductile iron conforming to ASTM A-536, Grade 65-45-12.

Optional: Segmentally welded steel as shown under nipples

Nipples: (specify choice)

¾ – 4"/20 – 100 mm: Carbon steel, Schedule 40, conforming to ASTM A-53, Type F

5 – 6"/125 – 150 mm: Carbon steel, Schedule 40, conforming to ASTM A-53, Type E or S, Gr. B

8 – 12"/200 – 300 mm: Carbon steel, Schedule 30 or 40, conforming to ASTM A-53, Type E or S, Gr. B

Flanged Adapter Nipples: (specify choice)

Class 125 Flange: Cast iron conforming to ANSI B-16.1

Class 150 Flange: Carbon steel conforming to ANSI B-16.5, raised or flat face

Class 300 Flange: Carbon steel conforming to ANSI B-16.5, raised or flat face

Fitting Coating: (specify choice)

Standard: Orange enamel.

Optional: Hot dip galvanized and others. Some fittings supplied electroplated as standard – see product specifications.

Flanged Adapter Nipple Coating: (specify choice)

Standard: None (Unfinished)

Optional: Orange enamel, hot dip galvanized and others.

Flow Data

(Frictional Resistance)

The chart expresses the frictional resistance of various Victaulic fittings as equivalent feet of straight pipe. Fittings not listed can be estimated from the data given, for example, a 22½° elbow is approximately one-half the resistance of a 45° elbow. Values of mid-sizes can be interpolated.

Size		Dimensions					
Nominal Size inches mm	Actual Outside Diameter inches mm	90° Elbows		45° Elbows		Tees	
		No. 10 Std. Radius feet meters	No. 100 1½ D Long Radius feet meters	No. 11 Std. Radius feet meters	No. 110 1½ D Long Radius feet meters	Branch feet meters	Run feet meters
1	1.315	1.7	—	0.8	—	4.2	1.7
25	33.7	0.5	—	0.2	—	1.3	0.5
2	2.375	3.5	2.5	1.8	1.1	8.5	3.5
50	60.3	1.1	0.8	0.5	0.3	2.6	1.1
76.1 mm	3.000	4.3	—	2.1	—	10.8	4.3
	76.1	1.3	—	0.7	—	3.3	1.3
3	3.500	5.0	3.8	2.6	1.6	13.0	5.0
80	88.9	1.5	1.2	0.8	0.5	4.0	1.5
108.0 mm	4.250	6.4	—	3.2	—	15.3	6.4
	108.0	2.0	—	0.9	—	4.7	2.0
4	4.500	6.8	5.0	3.4	2.1	16.0	6.8
100	114.3	2.1	1.5	1.0	0.6	4.9	2.1
133.0 mm	5.250	8.1	—	4.1	—	20.0	8.1
	133.0	2.5	—	1.2	—	6.2	2.5
139.7 mm	5.500	8.5	—	4.2	—	21.0	8.5
	139.7	2.6	—	1.3	—	6.4	2.6
5	5.563	8.5	—	4.2	—	21.0	8.5
125	141.3	2.6	—	1.3	—	6.4	2.6
159.0 mm	6.250	9.4	—	4.9	—	25.0	9.6
	159.0	2.9	—	1.5	—	7.6	2.9
165.1 mm	6.500	9.6	—	5.0	—	25.0	10.0
	165.1	2.9	—	1.5	—	7.6	3.0
6	6.625	10.0	7.5	5.0	3.0	25.0	10.0
150	168.3	3.0	2.3	1.5	0.9	7.6	3.0
8	8.625	13.0	9.8	6.5	4.0	33.0	13.0
200	219.1	4.0	3.0	2.0	1.2	10.1	4.0
10	10.750	17.0	12.0	8.3	5.0	41.0	17.0
250	273.0	5.2	3.7	2.5	1.5	12.5	5.2
12	12.750	20.0	14.5	10.0	6.0	50.0	20.0
300	323.9	6.1	4.4	3.0	1.8	15.2	6.1
14	14.000	24.5 ¹	15.8	18.5 ¹	11.0	70.0	23.0
350	355.6	7.5	4.8	5.6	3.4	21.3	7.0
16	16.000	28.0 ¹	18.0	21.0 ¹	13.0	80.0	27.0
400	406.4	8.5	5.5	6.4	4.0	24.4	8.2
18	18.000	31.0 ¹	20.0	23.5 ¹	14.0	90.0	30.0
450	457.0	9.5	6.1	7.2	4.3	27.4	9.1
20	20.000	34.0 ¹	22.5	25.5 ¹	16.0	100.0	33.0
800	508.0	10.4	6.9	7.8	4.9	30.5	10.1
24	24.000	42.0 ¹	27.0	29.5 ¹	19.0	120.0	40.0
600	610.0	12.8	8.2	9.0	5.8	36.6	12.2

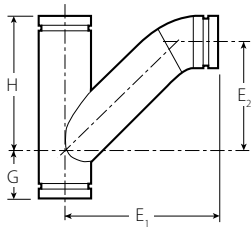
AGS fittings available up to 60"/1500 mm. Contact Victaulic for details.



1 Fitting flow data for 14-24"/350-600 mm size No. 10 and No. 11 Elbows is based on fittings for Style 07 and 77 couplings. For flow data on AGS fittings (No. W10 and No. W11 Elbows), refer to [publication 20.05](#).

Tee Wye

No. 32



No. 32

Size				No. 32 Tee Wye (sw)					
Nominal Size				G	H	E ₁	E ₂	Approx. Weight Each	
inches mm				inches mm	inches mm	inches mm	inches mm	lbs. kg	
2	x	2	x	2	2.75	7.00	9.00	4.63	6.4
50	x	50	x	50	70	178	229	118	2.9
2½	x	2½	x	2½	3.00	7.75	10.50	5.75	11.5
65	x	65	x	65	76	197	267	146	5.2
3	x	3	x	3	3.25	8.50	11.50	6.50	14.3
80	x	80	x	80	83	216	292	165	6.5
3½	x	3½	x	3½	3.25	10.00	13.00	7.75	22.9
90	x	90	x	90	89	254	330	197	10.4
4	x	4	x	4	3.75	10.50	13.63	8.13	26.0
100	x	100	x	100	95	267	346	207	11.8
5	x	5	x	5	4.00	12.50	16.13	10.00	48.0
125	x	125	x	125	102	318	410	254	21.8
6	x	6	x	6	4.50	14.00	18.25	11.50	60.5
150	x	150	x	150	114	356	464	292	27.4
8	x	8	x	8	6.00	18.00	23.25	15.25	127.1
200	x	200	x	200	152	457	591	387	57.7
10	x	10	x	10	6.50	20.50	27.25	18.00	190.0
250	x	250	x	250	165	521	692	457	86.2
12	x	12	x	12	7.00	23.00	31.00	20.50	240.0
300	x	300	x	300	178	584	787	521	108.9

General Notes

Note: All fittings are ductile iron unless otherwise noted with an (sw) or (s).

(s) = Carbon Steel Direct Roll Groove (OGS)

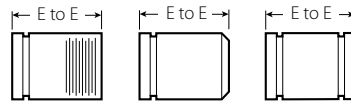
(sw) = Carbon Steel Segmentally Welded

Adapter Nipple

No. 40 12 Grv. x Thd.

No. 42 Grv. x Bev.

No. 43 Grv. x Grv.



No. 40

No. 42

No. 43

Size		No. 40, 42, 43 Adapter Nipple (s)	
Nominal Size	Actual Outside Diameter	E to E	Approx. Weight Each
inches mm	inches mm	inches mm	inches mm
¾	1.050	3.00	0.3
20	26.9	76	0.1
1	1.315	3.00	0.4
25	33.7	76	0.2
1¼	1.660	4.00	0.8
32	42.4	102	0.4
1½	1.900	4.00	0.9
40	48.3	102	0.4
2	2.375	4.00	1.2
50	60.3	102	0.5
2½	2.875	4.00	1.9
65	73.0	102	0.9
3	3.500	4.00	2.5
80	88.9	102	1.1
3½	4.000	4.00	2.1
90	101.6	102	0.9
4	4.500	6.00	5.5
100	114.3	152	2.5
5	5.563	6.00	7.4
125	141.3	152	3.4
6	6.625	6.00	9.5
150	168.3	152	4.3
8	8.625	6.00	14.2
200	219.1	152	6.4
10	10.750	8.00	27.0
250	273.0	203	12.2
12	12.750	8.00	33.0
300	323.9	203	15.0

12 Available with British Standard Pipe Threads, specify "BSP" clearly on order.

General Notes

For pump package nipples with 1 ½ "/40 mm hole cut to receive Style 923 Vic-Let or Style 924 Vic-O-Well® request special No. 40, 42 or 43 nipples and specify No. 40-H, 42-H or 43-H on order. NOTE: 4 – 12"/100 – 300 mm diameter — 8"/200 mm minimum length required.

For roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

Note: All fittings are ductile iron unless otherwise noted with an (sw) or (s).

(s) = Carbon Steel Direct Roll Groove (OGS)

(sw) = Carbon Steel Segmentally Welded